

# Global Neutron Generators Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Neutron Generators market size was valued at USD 35 million in 2023 and is forecast to a readjusted size of USD 66 million by 2030 with a CAGR of 9.6% during review period.

Neutron generators are neutron source devices which contain compact linear accelerators and that produce neutrons by fusing isotopes of hydrogen together. The fusion reactions take place in these devices by accelerating either deuterium, tritium, or a mixture of these two isotopes into a metal hydride target which also contains deuterium, tritium or a mixture of these isotopes. Fusion of deuterium atoms (D + D) results in the formation of a He-3 ion and a neutron with a kinetic energy of approximately 2.5 MeV. Fusion of a deuterium and a tritium atom (D + T) results in the formation of a He-4 ion and a neutron with a kinetic energy of approximately 14.1 MeV. Neutron generators have applications in medicine, security, and materials analysis.

The major manufacturers of global neutron generators include VNIIA, Adelphi Technology, Thermo Fisher Scientific, etc. The top 3 manufacturers in the world account for more than 70% of the market share.

North America is currently the world's largest market for neutron generators with a market share of about 45%, followed by Europe with a market share of nearly 32%. In terms of product, stationary neutron generators is the largest segment, with a share over 65%. And in terms of application, the largest application is research, followed by oil prospecting.

The Global Info Research report includes an overview of the development of the

Neutron Generators industry chain, the market status of Oil Prospecting (Portable Neutron Generators, Stationary Neutron Generators), Security (Portable Neutron Generators, Stationary Neutron Generators), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Neutron Generators.

Regionally, the report analyzes the Neutron Generators markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Neutron Generators market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Neutron Generators market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Neutron Generators industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Portable Neutron Generators, Stationary Neutron Generators).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Neutron Generators market.

**Regional Analysis:** The report involves examining the Neutron Generators market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Neutron Generators market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Neutron Generators:

**Company Analysis:** Report covers individual Neutron Generators manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Neutron Generators. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Oil Prospecting, Security).

**Technology Analysis:** Report covers specific technologies relevant to Neutron Generators. It assesses the current state, advancements, and potential future developments in Neutron Generators areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Neutron Generators market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Neutron Generators market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Portable Neutron Generators

Stationary Neutron Generators

### Market segment by Application

Oil Prospecting

Security

Research

Others

#### Major players covered

SHINE (Phoenix)

Sodern

Thermo Fisher Scientific

VNIIA

Adelphi Technology

AMETEK ORTEC

Gradel (NSD Fusion)

#### Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Neutron Generators product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Neutron Generators, with price, sales, revenue and global market share of Neutron Generators from 2019 to 2024.

Chapter 3, the Neutron Generators competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Neutron Generators breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Neutron Generators market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Neutron Generators.

Chapter 14 and 15, to describe Neutron Generators sales channel, distributors, customers, research findings and conclusion.

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